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(54) Title: COMPOSITION FOR PREVENTION AND TREATMENT OF DIABETIC COMPLICATION

(57) Abstract: The present invention relates to a composition for the prevention and treatment of diabetic complications, which contains an extract obtained by: crushing and drying any one selected from Euphorbiae radix, gingered Magnolia bark, parched Puerariae radix and Glycyrrhizae radix; extracting the dried herbal material with alcohol or aqueous alcohol solution; filtering the extract; and concentrating the filtrate under reduced pressure. Alternatively, the composition contains a mixture of extracts from Euphorbiae radix, gingered Magnolia bark, parched Puerariae radix and Glycyrrhizae radix, the amount of each of the herbal extracts being 5-85% by weight based on 100% by weight of the herbal extract mixture. Alternatively, the composition contains magnolol obtained by: extracting Magnolia bark with aqueous 80% ethanol solution at ambient temperature for 24 hours; systematically separating the extract in the order of normal-hexane, ethyl acetate and normal-butanol; selecting the normal-hexane layer and separating the selected layer into pre-fractions by normal silica gel chromatography; comparing the pre-fractions with the standard form magnolol on TLC to determine a magnolol-enriched fraction; and separating magnolol from the magnolol-enriched fraction by silica gel column chromatography.



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